

/\*

Experiment No. : 09

Statement : Lit an LED with brightness equal to 0%, 25%, 50%, 75%, 100% via serial monitor window.

Date of Exp. : xx/xx/xxxx

Author : Mansi Mandhane (A-24)

\*/

```
void setup() {
```

```
pinMode(3,OUTPUT); // Set pin 3 as an OUTPUT
```

```
Serial.begin(9600); // Initialize serial communication at a baud  
rate of 9600
```

```
}
```

```
void loop() {
```

```
    if (Serial.available()>0){          // Check if there's data  
available in the serial buffer
```

```
char key= Serial.read(); // Read a character from the serial  
buffer
```

```
    if(key=='A') // Check the received character and control the  
LED brightness
```

```
        analogWrite(3,0); // Turn off the LED
```

```
    else if(key=='B')
```

```
        analogWrite(3,63); // Set LED brightness to 25%
```

```
    else if(key=='C')
```

```
        analogWrite(3,127); // Set LED brightness to 50%
```

```
    else if(key=='D')
```

```
        analogWrite(3,190); // Set LED brightness to 50%
```

```
    else if(key=='E')  
        analogWrite(3,255); Set LED brightness to 100%  
    }  
}
```

